



Attorney's Docket 081674-0249738  
Client Reference: P12830

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re PATENT APPLICATION of:  
HIROSHI TAKATORI, ET AL.

Confirmation No: 5276

Application No.: 10/003,330

Group Art Unit: 2611

Filed: October 31, 2001

Examiner: SAM K. AHN

Title: TIMING RECOVERY WITH VARIABLE BANDWIDTH PHASE LOCKED LOOP  
AND NON-LINEAR CONTROL PATHS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATION OF FACSIMILE TRANSMISSION  
UNDER 37 C.F.R. §1.8**

I hereby certify that the following papers are being facsimile transmitted  
to the Patent and Trademark Office at (571) 273-2885 on the date shown below:

1. Issue Fee Transmittal
2. Form PTOL-85B
3. Change of Correspondence Address
4. Notification of Incorrect Filing Date on Notice of Allowance and Request for  
Corrected Filing Receipt

PILLSBURY WINTHROP SHAW PITTMAN LLP

ROGER R. WISE  
Reg. No. 31204

Date: November 7, 2006  
725 South Figueroa Street  
Suite 2800  
Los Angeles, CA 90017-5406  
Telephone: (213) 488-7100  
Facsimile: (213) 629-1033

(Certification of Facsimile Transmission—page 1)



PATENT  
81674-249738

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
**Hiroshi TAKATORI, et al.**

Serial No.: 10/003,330

Filed: October 31, 2001

For: **TIMING RECOVERY WITH VARIABLE  
BANDWIDTH PHASE LOCKED LOOP AND NON-  
LINEAR CONTROL PATHS**

Confirmation No.: 5276

Date of Notice of Allowance:  
August 22, 2006

I hereby certify that this correspondence together with its enclosures and attachments are being facsimile transmitted to: (571)273-2885, MAIL STOP ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on November 7, 2006.

By:

Roger R. Wise, Reg. No. 31,204

TRANSMITTAL OF ISSUE FEE

MAIL STOP ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In response to the Notice of Allowance dated August 22, 2006, enclosed are the following:

- ☒ Form PTOL 85 - Issue Fee Transmittal Part B.
- ☒ A Change of Correspondence Address.
- ☒ A Notification of Incorrect Filing Date on Notice of Allowance and Request for Corrected Filing Receipt



PATENT  
81674-249738

The Commissioner is hereby authorized to charge Deposit Account No. 033975 of the following fees:

- a) Issue Fee in the amount of \$1,400.00 (fee code 1501)
- b) Publication Fee in the amount of \$300.00 (fee code 1504)

The Commissioner is further authorized to charge any deficiency in payment or credit any overpayment to the aforementioned account number. A copy of this Transmittal is enclosed.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

Dated: November 7, 2006

By: Roger R. Wise

Roger R. Wise  
Registration No. 31,204  
Attorney for Applicant(s)

725 South Figueroa Street, Suite 2800  
Los Angeles, CA 90017-5406  
Telephone: (213) 488-7100  
Facsimile: (213) 629-1033

PATENT  
024 9738

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application  
TAKATORI, et al.

Group No.: Not Assigned

Serial No.: Not Assigned

Examiner: Not Assigned

Filed: October 31, 2001

For: TIMING RECOVERY WITH VARIABLE  
BANDWIDTH PHASE LOCKED LOOP AND NON-LINEAR  
CONTROL PATHSCERTIFICATE OF MAILING VIA U.S. EXPRESS MAIL

"Express Mail" Mailing Label No. EL 860 912 752 US

Date of Deposit: October 31, 2001

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

I hereby certify that

- ☒ Letter of transmittal
- ☒ Patent application (21 pages of specification; 32 claims; 1 pages of abstract)
- ☒ A check in the amount of \$1040.00 to cover the filing fee
- ☒ A Declaration/Power of Attorney
- ☒ 5 sheets of informal drawings
- ☒ Return postcard
- ☒ An Assignment of the invention with cover sheet and \$40.00 recordation fee

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service with sufficient postage under 37 CFR 1.10 on the date indicated above and are addressed to:

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231.October 31, 2001

Date of Deposit

Ernie Sandoval



PATENT  
81674-249738

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
**Hiroshi TAKATORI, et al.**

Serial No.: 10/003,330

Filed: October 31, 2001

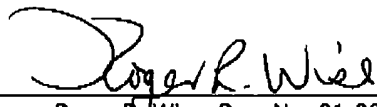
For: **TIMING RECOVERY WITH VARIABLE  
BANDWIDTH PHASE LOCKED LOOP AND NON-  
LINEAR CONTROL PATHS**

Confirmation No.: 5276

Date of Notice of Allowance:  
August 22, 2006

I hereby certify that this correspondence together with its enclosures and attachments are being facsimile transmitted to: (571)273-2885, MAIL STOP ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on November 7, 2006.

By:

  
Roger R. Wise, Reg. No. 31,204

**NOTIFICATION OF INCORRECT FILING DATE ON NOTICE OF ALLOWANCE**  
**and**  
**REQUEST FOR CORRECTED FILING RECEIPT**

MAIL STOP ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

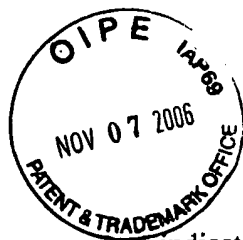
Dear Sir:

**IN THE NOTICE OF ALLOWANCE**

The filing date of the subject application in the Notice of Allowance and in the Updated Filing Receipt is incorrect. The correct filing date should be October 31, 2001.

**REMARKS**

This application was filed on October 31, 2001 as evidenced by the enclosed copy of the filing transmittals. An official filing receipt was issued on January 2, 2002 which correctly



PATENT  
81674-249738

indicates the filing date, which is October 31, 2001. However, an updated filing receipt was issued on March 28, 2002 which erroneously indicates that the application was filed on March 11, 2002. There was no basis for changing the filing date of this application.

It is therefore requested that the filing date on the Notice of Allowance be corrected to read October 31, 2001 and a corrected filing receipt be issued bearing the same filing date. The enclosed documents are being enclosed for your reference:

- Copy of the Express Mail label and the return postcard
- Copy of Certificate of Express Mail
- Copy of the application transmittal
- Copy of the Filing Receipt issued on January 2, 2002
- Copy of the Updated Filing Receipt issued on March 28, 2002

Respectfully submitted,

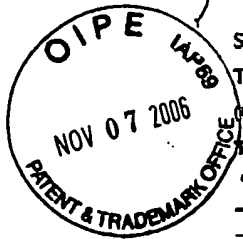
PILLSBURY WINTHROP SHAW PITTMAN LLP

Dated: November 7, 2006

By:

Roger R. Wise  
Registration No. 31,204  
Attorney for Applicant(s)

725 South Figueroa Street, Suite 2800  
Los Angeles, CA 90017-5406  
Telephone: (213) 488-7100  
Facsimile: (213) 629-1033



S.N. NOT ASSIGNED File No. 024 9738 Date Mailed 10/31/01 By: PRW/LIS  
 Title: TIMING RECOVERY WITH VARIABLE BANDWIDTH  
 (Client Name) INTEL  
 The Following, due \_\_\_\_\_ in the U.S. Patent & Trademark Office was received in the Patent & Trademark Office on the date stamped hereon:  
☐ Amendment  
☐ Preliminary Amendment  
☐ PCT Application Including  
☐ Pages Spec. \_\_\_\_\_ Page Abstract. \_\_\_\_\_ Claims  
☒ Application for Patent Including  
☒ 2/ Pages Spec. 1 Page Abstract. 32 Claims  
☒ Declaration, Affidavit of Oath (3 Page(s))  
☒ Assign: Ck. No. 801619 for \$ 40.-  
☐ Verified Statement  
☒ Letter of Transmittal  
☐ Maintenance Fee Transmittal  
☒ Check No. 801618 For \$ 1040.-  
☐ Check No. \_\_\_\_\_ For \$ \_\_\_\_\_  
☐ Check No. \_\_\_\_\_ For \$ \_\_\_\_\_  
☒ CERTIFICATE OF EXPRESS MAIL

Drawings: # of Sheets 5  
☐ Formal ☒ Informal  
☐ Issue Fee Transmittal  
☐ Letter Re \_\_\_\_\_  
☐ Notice of Appeal  
☐ Petition for \_\_\_\_\_  
☐ Advance soft copy order  
☐ Ck. No. \_\_\_\_\_ for \$ \_\_\_\_\_  
☐ Certified Copy: # \_\_\_\_\_ of Docs.  
☐ IDS; \_\_\_\_\_ References  
☒ ASSIGNMENT COVER  
30971 U.S. PTO  
10/003330  
10/31/01

EL 860 912 752 US



# POST OFFICE TO ADDRESSEE



EL 860912752 US

ORIGIN (POSTAL USE ONLY)		Day of Delivery		Flat Rate Envelope	
70081		First <input checked="" type="checkbox"/> Second <input type="checkbox"/>		<input type="checkbox"/>	
Date 10/31/01		Time 11:00 AM <input checked="" type="checkbox"/> 12:00 PM <input type="checkbox"/> 3:00 PM <input type="checkbox"/>		Postage \$16.25	
Weight 15.1 lbs		Return Receipt Fee		COO Fee Insurance Fee	
No Delivery <input type="checkbox"/> Weekend <input type="checkbox"/> Holiday <input type="checkbox"/>		Acceptance Initials		Total Postage & Fees \$16.25	

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FROM: PLEASE PRINT  
 PHONE 213 488 7158  
 PILLSBURY WINTHROP LLP  
 7700 G. FIGUEROA ST STE 2800  
 LOS ANGELES CA 90017-5443  
 031674.024 9738 ERW/jo

TO: PLEASE PRINT  
 PHONE \_\_\_\_\_  
 Assistant Commissioner of Patents  
 Box Patent Application  
 Washington, D.C. 20231

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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## REQUEST FOR FILING NATIONAL PATENT APPLICATION

Under 35 USC 111(a) and Rule 53(b)

PATENT APPLICATION

WITH SIGNED DECLARATION

**NONPROVISIONAL  
NON REISSUE  
NON PCT NAT PHASE**

Commissioner of Patents  
Washington, D.C. 20231

Sir:

Herewith is the PATENT APPLICATION of  
Inventor(s): James Little, Hiroshi Takatori and Scott Chiu

Title TIMING RECOVERY WITH VARIABLE BANDWIDTH PHASE  
LOCKED LOOP AND NON-LINEAR CONTROL PATHS

Atty. Dkt.: PW 024 9738 | P12830  
M# | Client Ref

Including:

Date: October 31, 2001

1. Specification: 21 pages (only spec. and claims)
2. ☐ Specification in non-English language
3. Declaration: ☒ Original ☐ Facsimile/Copy ☒ Abstract 1 page(s); 32 numbered claims
4. ☒ Drawings: 5 sheet(s) ☒ informal; ☐ formal of size: ☐ A4 ☒ 11"
5. ☐ See top first page re prior Provisional, National or International application(s). ("X" box only if info is there and do not complete corresponding item 5 or 6). (Prior M#          SN         )
6. **AMEND the specification** please by inserting before the first line: -- This is a ☐ Continuation-in-Part  
☐ Divisional ☐ Continuation ☐ Substitute Application (MPEP 201.09) of:  
6(a) ☐ National Appln. No. 1 filed          (M#         )  
6(b) ☐ International Appln. No.          filed           
which designated the U.S., and that International Application ☐ was ☐ was not published under PCT Article 21(2) in English.--
7. ☐ **AMEND the specification** by inserting before the first line: -- This application claims the benefit of U.S. Provisional Application No. 60/         , filed          --
8. ☒ Attached is an assignment and cover sheet. Please return the recorded assignment to the undersigned.
9. ☐ Prior application is assigned to

by Assignment recorded          Reel          Frame         

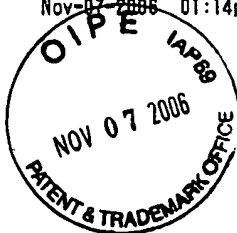
10. **FOREIGN** priority is claimed under 35 USC 119(a)-(d)/365(b) based on filing in         

11.          (country)

Application No.	Filing Date	Application No.	Filing Date
(1)		(2)	
(3)		(4)	
(5)		(6)	
(7)		(8)	
(9)		<input type="checkbox"/> See 3 <sup>rd</sup> page for additional priorities	

12.          (No.) Certified copy (copies): ☐ attached; ☐ previously filed (date)           
in U.S. Application No. 1 filed on
13. Small entity status → ☒ is **not** claimed; ☐ is claimed (**Pre-filing confirmation required**)
- 13(a) ☐ Attached:          (No.) Small Entity Statement(s) (since 9/8/00 small entity statement(s) **not essential** to make claim)
- 13(b) ☐ See **NONPUBLICATION REQUEST** under Rule 213(a) attached (PAT-258)





14. DOMESTIC/INTERNATIONAL priority is claimed under 35 USC 119(e)/120/365(c) based on the following provisional, nonprovisional and/or PCT international application(s):

Application No.	Filing Date	Application No.	Filing Date
(1)		(4)	
(2)		(5)	
(3)		(6)	

15. ☐ This application is being filed under Rule 53(b)(2) since an inventor is named in the enclosed Declaration who was not named in the prior application.

16. ☐ Attached:

17. ☐ Preliminary Amendment:

**THE FOLLOWING FILING FEE IS BASED ON CLAIMS AS FILED LESS ANY ABOVE CANCELLED**

				Large/Small Entity	Fee Code
18. Basic Filing Fee				\$740/\$370	101/201
19. Total Effective Claims	32	minus 20 =	*12	x \$18/\$9 =	103/203
20. Independent Claims	4	minus 3 =	*1	x \$84/\$42 =	102/202
*If answer is zero or less, enter "0"					
21. If any proper multiple dependent claim (ignore improper) is present, add (Leave this line blank if this is a reissue application)				+ \$280/\$140	104/204
22. TOTAL FILING FEE ENCLOSED =				\$1040	
23. If "non-English" box 2 is X'd, add Rule 17(k) processing fee				+ \$130	139
24. If "assignment" box 8 is X'd, add recording fee				+ \$40	581
25. <input type="checkbox"/> Attached is a Petition/Fee under Rule No.				+ \$130	122
26. TOTAL FEE ENCLOSED =				\$1080	

Our Deposit Account No. 03-3975

Our Order No. 081674 0249738

C# M#

**CHARGE STATEMENT:** The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficient fee only) now or hereafter relative to this application and the resulting Official document under Rule 20, or credit any overpayment, to our Account/Order Nos. shown above for which purpose a duplicate copy of this sheet is attached.

This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an issue fee transmittal form is filed.

**Pillsbury Winthrop LLP**  
Intellectual Property Group

725 South Figueroa Street, Suite 2800  
Los Angeles, CA 90017-5406  
Tel: (213) 488-7100

By Atty: Roger R. Wise

Reg. No. 31204

Sig: Roger R. Wise

Fax: (213) 629-1033  
Tel: (213) 488-7584

RRW/jes

NOTE: File in duplicate with 2 post card receipts (PAT-103) & attachments



01:14pm

From-PILLSBURY WINTHROP SHAW PITTMAN LLP

+2136291033

T-106 P.012/015 F-941

Page 1 of 2

## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/003,330	10/31/2001	2631	1040	PW 024 9738 P12830	5	32	4

CONFIRMATION NO. 5276

## FILING RECEIPT



\*OC000000007250499\*

Pillsbury Winthrop LLP  
Intellectual Property Group  
Suite 2800  
725 South Figueroa Street  
Los Angeles, CA 90017-5406

Date Mailed: 01/02/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Hiroshi Takatori, Sacramento, CA;  
James M. Little, Sacramento, CA;  
Scott Chiu, Folsom, CA;RECEIVED  
PILLSBURY WINTHROP LLP/LA

## Domestic Priority data as claimed by applicant

## Foreign Applications

If Required, Foreign Filing License Granted 12/31/2004

JAN 07 2001  
CL# 081674 MT# 0249738  
ATTY(S) RRM - INTEL  
DUE: N/A  
DKT BY (1) JT (2)

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

## Title

Timing recovery with variable bandwidth phase locked loop and non-linear control paths

## Preliminary Class

375

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

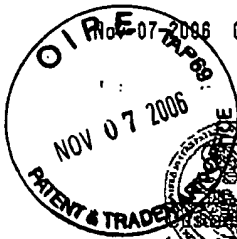
The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

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01:15pm

From-PILLSBURY WINTHROP SHAW PITTMAN LLP

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T-106 P.014/015 F-941

Page 2 of 2

## UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Service Center  
Intellectual Property Examination Division (703) 308-1202COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FL FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/003,330	03/11/2002	2631	1170	PW 024 9738 P12830	7	32	4

↑  
INCORRECT. SHOULD BE 10/31/2001Pillsbury Winthrop LLP  
Intellectual Property Group  
Suite 2800  
725 South Figueroa Street  
Los Angeles, CA 90017-5406

CONFIRMATION NO. 5276

UPDATED FILING RECEIPT



\*OC000000007739137\*

Date Mailed: 03/28/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Hiroshi Takatori, Sacramento, CA;  
James M. Little, Sacramento, CA;  
Scott Chiu, Folsom, CA;

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 12/31/2001

Projected Publication Date: 09/11/2003

Non-Publication Request: No

Early Publication Request: No

## Title

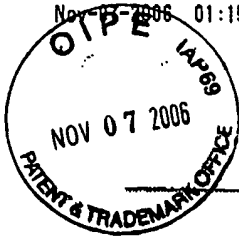
Timing recovery with variable bandwidth phase locked loop and non-linear control paths

Preliminary Class

RECEIVED  
PILLSBURY WINTHROP LLP/LA

APR 01 2002

CL# 081674  
ATTY(S) ERW - INTER  
DUE: N/A  
DKT BY (1) [signature] (2)



375

**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).